PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	•		VS.	
To:			PCT PCT	
		÷	N	
			ITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
	·	Date of mailing (day/month/year)	See form PCT/ISA/210	
Applicant's or agent's file reference		FOR FURTHER ACTION		
P10-1602		<u> </u>	See paragraph 2 below	
••	rnational filing date (communication)	day/month/year)	Priority date (day/month/year) 11.02.2004	
International Patent Classification (IPC) or both nation	onal classification and	d IPC		
C08L21/00, C08K5/00			•	
Applicant .				
SOCIETE DE TECHNOLOGIE	MICHELIN		•	
This opinion contains indications relating to	o the following items			
Box No. I Basis of the opini	.on		-	
Box No. II Priority				
Box No. III Non-establishme	nt of opinion with reg	gard to novelty, inventi	ive step and industrial applicability	
Box No. IV Lack of unity of i				
		.1(a)(i) with regard to a ns supporting such stat	novelty, inventive step or industrial ement	
Box No. VI Certain documen	ts cited ·			
Box No. VII Certain defects in	n the international app	plication		
Box No. VIII Certain observati	ions on the internation	nal application		
2. FURTHER ACTION				
International Preliminary Examining Auth	ority ("IPEA") excep en IPEA has notified	ot that this does not application of the International Bur	ll be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1 bis(b) that written opinions of	
If this opinion is, as provided above, cons	sidered to be a writte , with amendments,	en opinion of the IPEA before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.	
For further options, see Form PCT/ISA/22		-		
3. For further details, see notes to Form PCT/	/ISA/220.			

Name and mailing address of the ISA/EP	.	Authorized officer		
Facsimile No.		Telephone No.		

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN.OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001338

 	
Box	No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
٠	in written format
	in computer readable form
	c. time of filing/furnishing
ŀ	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
1	· · · · · · · · · · · · · · · · · · ·
1	
	•
1	
	· •
	·
	· .
1	·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001338

citations and explanations supporting such statement 1. Statement				
	Statement			
	Noveli	ty (N)	Claims 1-53	YE
			Claims	NO
	lnvent	ive step (IS)	Claims 1-53	YE
			Claims	NO
	Industrial applicability (IA)		•	
•			ility (IA) Claims 1-53	YE
	_		Claims	NO
2.	Citations	and explanat	ions:	
	1.	Refer	ence is made to the following documents in t	the
		prese	ent notification:	
		D1:	Null V.: "Safe process oils for tires with	low
			environmental impact", Kautschuk und Gummi	•
		٠		
			Kunststoffe- Asbest, Dr. Alfred Huthig Verl	_
			GmbH, Heidelberg, DE. vol. 52, no. 12, 1999	j,
			pages 799-800, 802, XP002184259	
	-	D2:	J. Bowman, M. Da Via, M.E. Pattnelli,	
			P. Torloreto: "The influence of non-toxic	•
			extender oil on SBR performances", Kautschi	ık
			Gummi Kunststoffe, vol. 57, no. 1,	
			1 February 2004 (2004-02-01), pages 31-36,	•
		•	XP001183198, Heidelberg	
			114 00 110 110 110 110 110 110 110 110 1	
	2.	Novel	ty and inventive step - claims 1-53	٠
	2.1.	Docum	ment D1, which is considered to represent the	е
		most	relevant prior art, describes a plasticizer	

2.2 Independent claims 1, 25, 39, 43, 46, 49 and 53 of the present application differ from D1 by replacing

TDAE oil (D1: pages 799-804).

system characterized in that it comprises an MES or

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001338

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

some of these MES or TDAE oils with a polylimonene resin.

- 2.3. The subject matter of claims 1-53 (plasticizer system, rubber composition comprising said plasticizer system, a method for preparing said rubber composition, use of said composition for manufacturing an article, said finished or semifinished article, and the use of said plasticizer system for plasticising a diene rubber composition) is therefore novel.
- 2.4. In general, in rubber compositions for tyres, replacing DAE aromatic oils with MES or TDAE oils results in a reduction in the abrasion and cut resistance of said compositions.
 The problem that the present invention is intended to solve can be considered to be that of: Providing an improved plasticizer system based on an MES or TDAE oil that avoids the above drawbacks.
- 2.5. The solution proposed in the present application is a plasticizer system characterized in that it comprises an MES or TDAE oil and, in addition, a polylimonene resin.
- 2.6. Neither D1 nor a combination of D1 and D2 suggests said solution to the problem. The subject matter of claims 1-53 of the present application therefore involves an inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001338

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
3.	The inventions according to claims 1 to 53 are
	industrially applicable.
•	
	•
-	